DELIRON LIMITED
A division of Whitlock Instrument

Digital Lubrication Monitor
Model DLM-812 - Part# 000783

Name: DLM-812 Literature
Revision: 1.0 | Revision Date: 19-OCT-2017
Created By: Ray Garcia
File Name: DLM812 LIT_COMPLETE_2017

DUAL ZONE MONITOR (Zone #1/Zone #2)
MONITORS AND RECORDS OPERATION OF DIVIDER BLOCK LUBRICATION SYSTEMS

DLM-812

SPECIFICATIONS

Enclosure………Compliant with Class I Division I Groups B, C, D
Power...120VAC or 24VDC@.040 amps
Alarm Switch ....Form C Contact 120 VAC @ 5 amps N.O. COM. N.C.
Alarm Time.......................................Programmable - 3 sec to 250 seconds
Temperature Range....................................0° to +150° F (-32° to +70° C)
Warranty..1 Year
Display................Cycle Time(Sec), Flow Rate(Pints/Day), Total Strokes,
　　　　　　　　　　　Alarm Status, Total System Run Time(Hours)
Memory....................100 Cycle times Zone #2, 100 Cycle times Zone #1

DISPLAY: Automatically scrolls between Pints/Day,
Cycle Time, Total Strokes, System Run Time.
Pressing (**INC.**) Will lock display at the present
function.
Pressing the (**EXIT**) will release the scroll lock and
return to automatic.

DISPLAY FUNCTIONS:
Pints/Day ZONE#1 and ZONE #2
  Z1 XXX.X P/D Pints/Day Zone #1
  Z2 XXX.X P/D Pints/Day Zone #2

Cycle time ZONE#1
  Z1 XXX.X SEC Cycle time in seconds
　PREV. XXX.X Previous Cycle time for Zone#1

Cycle time ZONE #2
  Z2 XXX.X SEC Cycle time in seconds
　PREV. XXX.X Previous Cycle time for Zone#2

Total strokes   ZONE#1 and ZONE #2
  Z1 XXXXXX STK Total Strokes Zone#1
  Z2 XXXXXX STK Total Strokes Zone #2

Total run time in hours
  000000.000

DESCRIPTION
The DLM-812 is a microprocessor based dual mode
monitor for the display and control of progressive in- line
lubrication systems. Proximity switches mounted to the
divider block system for Zone #1 and Zone #2 signals the
DLM812 each cycle. The time between cycles is
displayed on the LCD readout as time into the current
cycle as well as the time for the previous cycle. Each 10
seconds the display changes to show the flow rate in
pints/day, cycle time, total strokes, and system run time
for both Zone #1 and Zone #2. If the time between
cycles exceeds the programed alarm time an alarm
signal is activated.   The last I00 cycle times for the
Zone #1 and Zone #2 lubrication systems are stored in
permanent memory and can be read out via local control
of program buttons.

![DELIRON LIMITED logo] A division of Whitlock Instrument

Digital Lubrication Monitor
Model DLM-812 - Part# 000783

Name: DLM-812 Literature
Revision: 1.0 | Revision Date: 19-OCT-2017
Created By: Ray Garcia
File Name: DLM812 LIT_COMPLETE_2017

DUAL ZONE MONITOR (Zone #1/Zone #2)
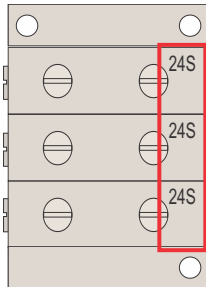### MONITORS AND RECORDS OPERATION OF DIVIDER BLOCK LUBRICATION SYSTEMS

(Note: Program instructions shown for Zone 1, instructions are the same for zone 2.)
PROGRAMMING FUNCTIONS
Press PRG. and hold PRG. use INC. or DEC. buttons to change functions. Pressing Exit button will return to normal operation.
1)Z1 BLK TOTL= Block Total - Programmable between 18-144. Use INC or DEC Button to set block Total for **Zone #1**.

FIG. 1

First step you will need to add the values stamped on the face of each divider block.
(Example FIG.1: 24+24+24=72 Block Total)
Once you have your block total you will go to your DLM-811 press and hold PRG. now press INC. you should be on 1)Z1 BLK TOTL now you can release the PRG. button. Press INC. until you have reached your block total value. If you go past your block total value press DEC. until you have reached your value.

3)Z1 ALR SEC= Alarm Time - Programmable between 3-250 seconds. Use INC or DEC Button to set block Total for **Zone #1**.
5)MEMORY Z1= Cycle Time Memory - Use INC or DEC Button to view last 100 cycle times for **Zone #1**.
NOTE: Memory is permanent, will not be lost in case of power failure.
7)RESET?_= System Reset - Press the INC or DEC Buttons at the same time to reset total strokes and hours.

DISPLAY: Automatically scrolls between Pints/Day, Cycle Time, Total Strokes, System Run Time.
Pressing (INC.) Will lock display at the present function.
Pressing the (EXIT) will release the scroll lock and return to automatic.

Four(4) panel mounted buttons are used to change the setup parameters.

Program menu items are accessed by pressing the PRG button.

Pressing the PRG and either INC. or EXT at the same time will access the other menu items.

The INC. and EXT buttons will change a menu item slowly at first then rapidly if held down.

The exit button will return to the display mode if pressed at any time.
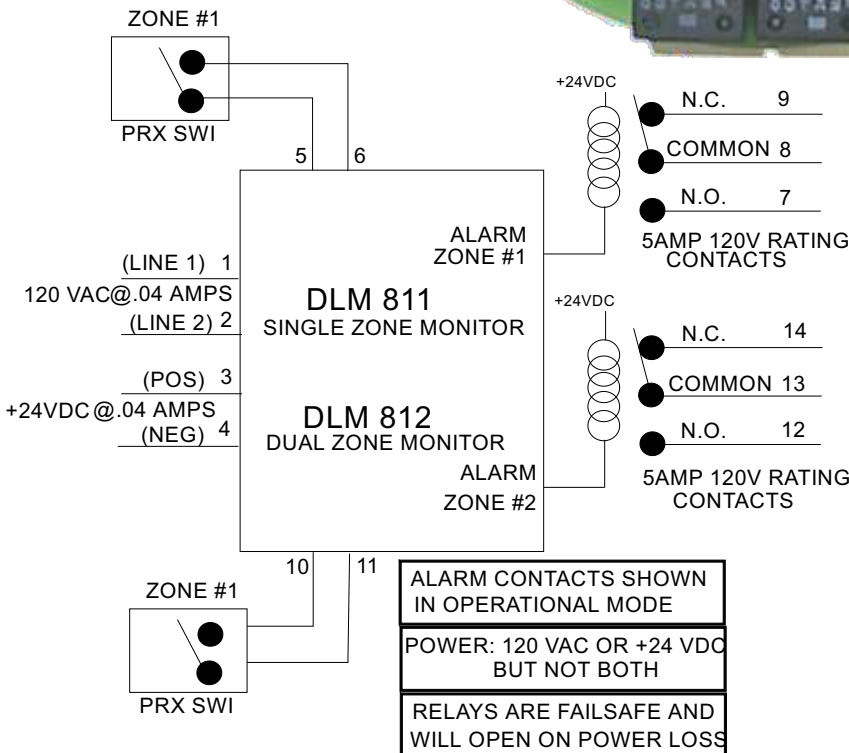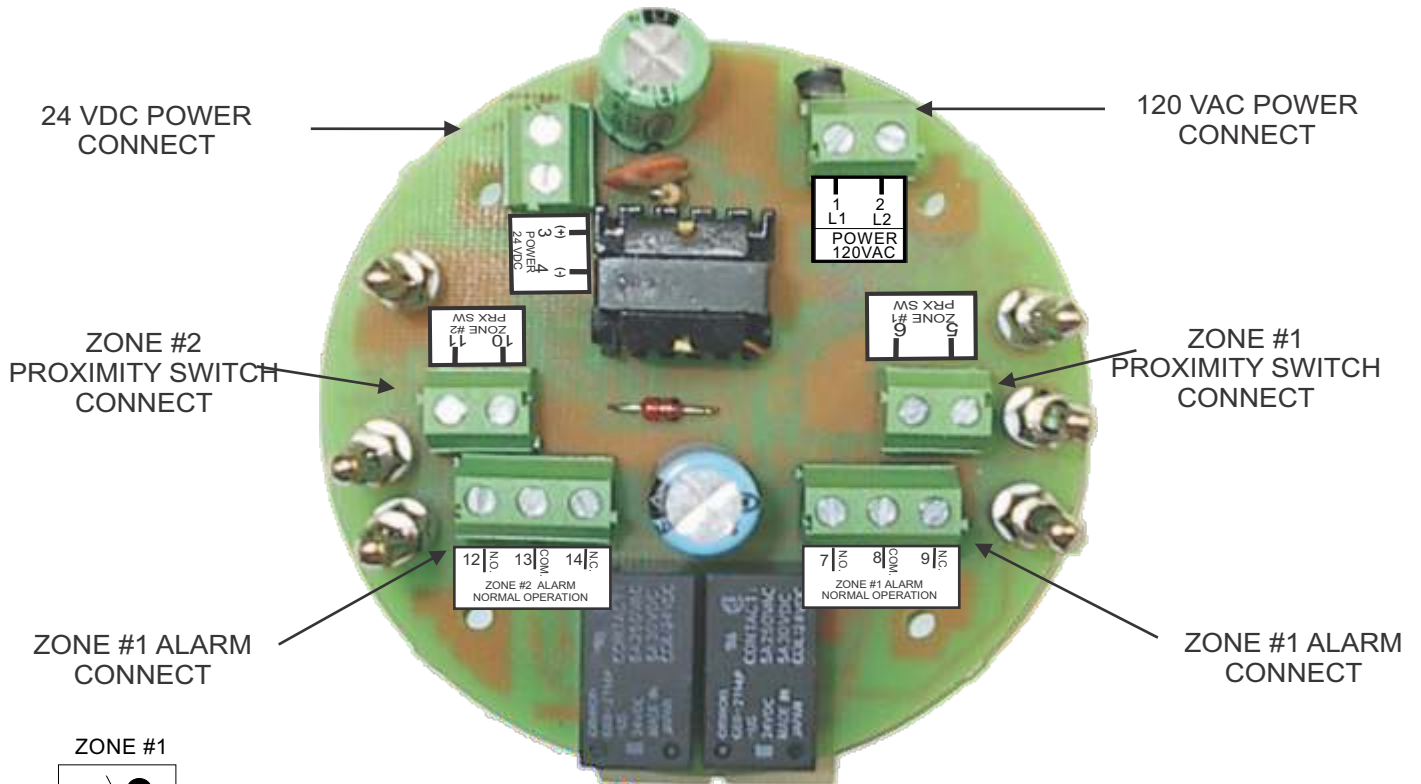
![DELIRON LIMITED logo]

Manufactured and Assembled in the USA by:
Whitlock Instrument
1300 N. Texas Ave
Odessa, Texas 79761 USA
(432) 337-3412 | www.noflo.com

Digital Lubrication Monitor
Model DLM-812 - Part# 000783

DELIRON LIMITED
A division of Whitlock Instrument

Name: DLM-812 Literature
Revision: 1.0 | Revision Date: 19-OCT-2017
Created By: Ray Garcia
File Name: DLM812 LIT_COMPLETE_2017

DUAL ZONE MONITOR (Zone #1/Zone #2)
WIRING DIAGRAM

24 VDC POWER CONNECT

120 VAC POWER CONNECT

ZONE #2 PROXIMITY SWITCH CONNECT

ZONE #1 PROXIMITY SWITCH CONNECT

ZONE #1 ALARM CONNECT

ZONE #1 ALARM CONNECT

3 (+) POWER 24VDC 4 (-)

1 L1 2 L2 POWER 120VAC

ZONE #2 PRX SW 11 10

ZONE #1 PRX SW 6 5

12 N.O. 13 COM. 14 N.C. ZONE #2 ALARM NORMAL OPERATION

7 N.O. 8 COM. 9 N.C. ZONE #1 ALARM NORMAL OPERATION

ZONE #1
PRX SWI

+24VDC
N.C.   9
COMMON 8
N.O.   7
5AMP 120V RATING CONTACTS

ALARM ZONE #1

DLM 811
SINGLE ZONE MONITOR

DLM 812
DUAL ZONE MONITOR

ALARM ZONE #2

(LINE 1) 1
120 VAC@.04 AMPS
(LINE 2) 2

(POS) 3
+24VDC @.04 AMPS
(NEG) 4

5   6

+24VDC
N.C.   14
COMMON 13
N.O.   12
5AMP 120V RATING CONTACTS

10 11

ZONE #1
PRX SWI

ALARM CONTACTS SHOWN IN OPERATIONAL MODE

POWER: 120 VAC OR +24 VDC BUT NOT BOTH

RELAYS ARE FAILSAFE AND WILL OPEN ON POWER LOSS

Terminal Identification
1. LINE 1 (120 VAC)
2. LINE 2 (120 VAC)
3. POSITIVE (24 VDC)
4. NEGATIVE (24 VDC)
5. ZONE #1 PROXIMITY SWITCH
6. ZONE #1 PROXIMITY SWITCH
7. ZONE #1 ALARM NORMALLY OPEN
8. ZONE #1 ALARM COMMON
9. ZONE #1 ALARM NORMALLY CLOSED
10. ZONE #2 PROXIMITY SWITCH
11. ZONE #2 PROXIMITY SWITCH
12. ZONE #2 ALARM NORMALLY OPEN
13. ZONE #2 ALARM COMMON
14. ZONE #2 ALARM NORMALLY CLOSED